



Formosa Plastics®

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October 30, 2018

Certified Mail: 7018 0360 0000 5327 8233

Air Section Manager, Region 14
Texas Commission Environmental Quality
Natural Resource Center
6300 Ocean Drive, Suite 1200
Corpus Christi, Texas 78412

RE: Formosa Plastics Corporation, Texas
TCEQ Air Quality Account No. CB-0038-Q
Third Quarter 2018 North SUMMA Canister Report

Dear Air Section Manager:

Please find attached the quarterly summary of results from the North SUMMA Canister Monitoring System. This system, and the associated FTIR, was installed as a Supplemental Environmental Project (SEP) as required by TCEQ Docket No. 2000-1144-AIR-E. The sampling requirements of the SEP have been met by FPC-TX, and sampling has been reduced to a monthly frequency. The third quarter 2018 results are shown on the attached table. Additionally, we have included wind roses generated by the weather sensor on the North FTIR or wind direction data from other air monitoring devices for each SUMMA canister sampling date during the third quarter 2018.

This report was designed to be similar to the Point Comfort SUMMA Canister Monitoring Report to maintain reporting consistency. Additionally, an electronic copy of the report has been sent to Dr. Tracie Phillips, per Mr. Darrell McCant's request.

Should you have any questions please contact Vanessa Peppers by e-mail at VanessaP@ftpc.fpcusa.com.

Sincerely,

Rick Crabtree
Vice President/General Manager
Formosa Plastics Corporation, Texas

Attachments

October 30, 2018

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cc: Dr. Tracie Phillips
Toxicology Division
Texas Commission on Environmental Quality
P. O. Box 13087
Austin, Texas 78711-3087

Certified Mail: 7018 0360 0000 5327 8354

FORMOSA PLASTICS CORPORATION, TEXAS

SUMMA CANISTER QUARTERLY REPORT

CALCULATION METHODOLOGY

Following is the calculation methodologies used to calculate the Year-To-Date Sum and Year-To-Date Average for the North SUMMA canister sampling site. Please note, there are two columns associated with each component analyzed. The column titled "Actual" represents the results reported by the independent laboratory contracted to analyze the SUMMA canisters. The column titled "½ Reported LOD (Limit of Detection)" represents either the actual result or one-half the limit of detection reported by the laboratory, as appropriate.

ACTUAL

The following is entered into the column titled "Actual":

Numerical Value - Actual results reported by the independent laboratory when the result is equal to or greater than the limit of detection. The numerical value is used to calculate the year-to-date sum and the year-to date average;

ND (Non Detect) - As reported by the laboratory. The value of "0" is used to calculate the year to date sum and the year-to-date average;

BDL (Below Detection Limit) - Entered when the actual result is less than the reported limit of detection. The value of "0" is used to calculate the year-to-date sum and the year-to-date average;

"*" - Non operational sampling period.

½ REPORTED LOD (LIMIT OF DETECTION)

The following is entered into the column titled "½ Reported LOD":

Numerical Value - Actual results reported by the independent laboratory when the result is equal to or greater than the limit of detection. The numerical value is used to calculate the year-to-date sum and the year-to-date average;

½ the Reported Limit of Detection - ½ the reported limit of detection when the results are reported as non-detect and when the actual result is below the detection limit (BDL). ½ the reported limit of detection is used to calculate the year-to-date sum and the year-to-date average.

"*" - Non operational sampling period.

FORMOSA PLASTICS CORPORATION, TEXAS

SUMMA CANISTER QUARTERLY REPORT

Limit of Detection (LOD) - Method Detection Limit, Limit of Detection, Reporting Limit, etc... as reported by the independent laboratory conducting the analysis.

DUPLICATE SAMPLES

The duplicate samples are reported discreetly on a separate VOC Canister Analysis Table. This is done so that the duplicate samples can be compared to the routine samples and the Relative Percent Difference (RPD) can be calculated. The RPD is calculated using the following equation:

$$\{(X1-X2) / [(X1+X2) / 2]\} \times 100$$

Where the duplicate and routine sample indicated "ND", the RPD is reported as "ND". Where the duplicate or routine sample indicated "ND" and the other indicated a concentration greater than ND, the RPD is calculated by using the value entered in the actual concentration column and the value entered in the ½ Reported LOD column.

YEAR-TO-DATE SUM

The year-to-date sum is calculated by taking the sum of all values entered in the column.

YEAR-TO-DATE AVERAGE

The following formula is used to calculate the year-to-date average:

$$\text{Year-To-Date Sum} / (\text{Number of theoretical sample periods} - \text{Number of non operational sample periods})$$

FORMOSA VOC CANISTER ANALYSIS

3rd QUARTER 2018

NORTH SITE

SAMPLE DATE	AVG. WIND DIRECTION (Degrees)	AVG. WIND SPEED (mph)	ETHYLENE		1,3 BUTADIENE		BENZENE		VINYL CHLORIDE		ETHYLENE DICHLORIDE	
			Actual (ppb)	1/2 Reported LOD (ppb)	Actual (ppb)	1/2 Reported LOD (ppb)	Actual (ppb)	1/2 Reported LOD (ppb)	Actual (ppb)	1/2 Reported LOD (ppb)	Actual (ppb)	1/2 Reported LOD (ppb)
10/11/17	231	5.9	*	*	*	*	*	*	*	*	*	*
11/10/17	140	2.1	*	*	*	*	*	*	*	*	*	*
12/10/17	234	1.5	*	*	*	*	*	*	*	*	*	*
01/09/18	231	5.9	*	*	*	*	*	*	*	*	*	*
02/23/18	115	11	*	*	*	*	*	*	*	*	*	*
03/15/18	148	11.3	ND	0.0500	ND	0.1250	0.6050	0.6050	0.2850	0.2850	ND	0.0500
04/14/18	322	8.9	*	*	*	*	*	*	*	*	*	*
05/31/18	158	14.5	ND	0.0500	ND	0.0500	0.4970	0.4970	0.6950	0.6950	0.3300	0.3300
06/30/18	160	13.9	ND	0.0500	ND	0.1250	0.2590	0.2590	0.1650	0.1650	0.1030	0.1030
07/28/18	322	8.9	*	*	*	*	*	*	*	*	*	*
08/31/18	158	14.5	ND	0.0500	ND	0.1250	0.4360	0.4360	0.1630	0.1630	0.3360	0.3360
09/30/18	160	13.9	ND	0.0500	ND	0.1250	ND	0.0500	ND	0.0500	ND	0.0500

	ETHYLENE		1,3 BUTADIENE		BENZENE		VINYL CHLORIDE		ETHYLENE DICHLORIDE	
	Actual (ppb)	1/2 Reported LOD (ppb)	Actual (ppb)	1/2 Reported LOD (ppb)	Actual (ppb)	1/2 Reported LOD (ppb)	Actual (ppb)	1/2 Reported LOD (ppb)	Actual (ppb)	1/2 Reported LOD (ppb)
Year-To-Date Sum	0.0000	0.2500	0.0000	0.5500	1.7970	1.8470	1.3080	1.3580	0.7690	0.8690
Rolling Year Average	0.0000	0.0500	0.0000	0.1100	0.3594	0.3694	0.2616	0.2716	0.1538	0.1738
Annual Average	0.0000	0.0500	0.0000	0.1250	0.2180	0.2430	0.0815	0.1065	0.1680	0.1930

Number of theoretical sample periods 12 12 12 12 12 12

Number of non operational sample periods 7 7 7 7 7 7

d - Duplicate sample taken in addition to the routine sample (See Calculation Methodology for information on inclusion of duplicate sample results.)

a - Wind rose attached

* - non operational, data from the North site was used for Wind Direction and Wind Speed, if available

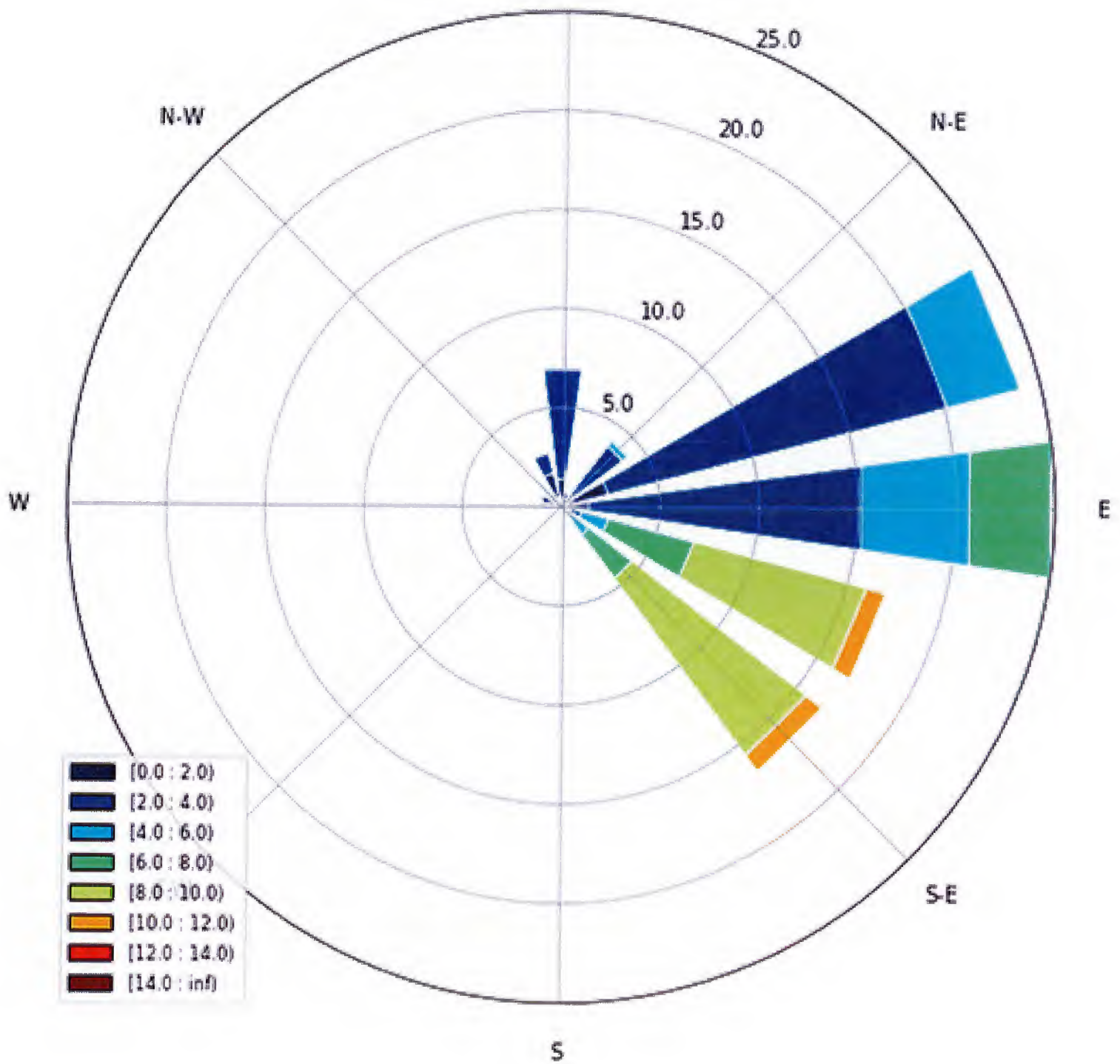
Chemical	TCEQ Air Monitoring Comparison Values (ppb)		Investigation Limit (ppb)
	ST	L/T	
Vinyl Chloride	27,000	0.47	25
Ethylene Dichloride	94	0.72	29.7
Benzene	180	1.4	28.2
Ethylene	500,000	30	500
1, 3 Butadiene	1,700	9	25

Summary of Non-operational Periods - 3rd Quarter 2018

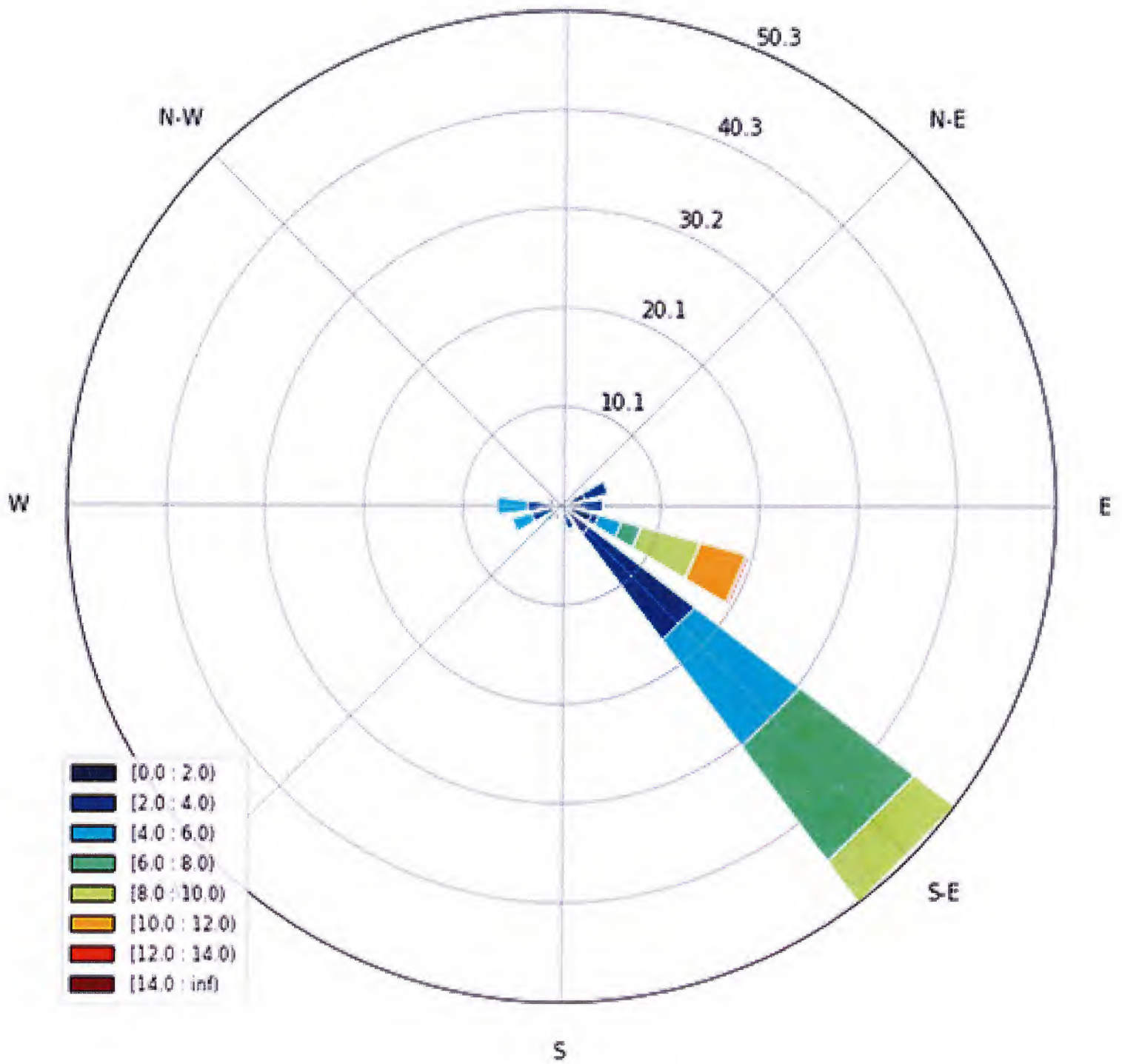
North Site SUMMA Canister System

SUMMA Site	Date (s)	Description of Problem	Corrective Action
North	28-Jul-18	Sample voided due to low pressure.	URS / AECOM technician adjusted flow controller.

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FPC: July 28 2018



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